

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) An arrangement comprising: ~~for supplying electrical power to~~

a field device with a housing, for monitoring a technical process in of a process installation~~[[,]]~~ in which there are pipelines which carry process media, ~~without the use of wires, which~~ the field device has having a wire-free communication interface, and has having at least one field device face facing the process and at least one field device face facing away from the process, ~~and is equipped with ; and~~

a thermoelectric transducer ~~which has~~ having a transducer face for ~~[[()]]~~ facing the process and a transducer face for facing away from the process, ~~wherein the thermoelectric transducer being~~ is arranged in or on the field device outside the pipeline carrying the process media, ~~such that~~ for converting at least one of heat flow in the field device between the field device face facing the process and the field device face facing away from the process, and ~~and/or~~ heat flow through the thermoelectric transducer between the transducer face facing the process and the transducer face facing away from the process, ~~is converted to electrical energy for supplying electrical power to the field device by the thermoelectric transducer.~~

2. (Currently Amended) The arrangement as claimed in claim 1, wherein the thermoelectric transducer is configured for converting heat flow in the field device between the field device face facing the process and the field device face facing away from the process, and/or the heat flow through the thermoelectric transducer between the transducer face facing the process and the transducer face facing away from the process, ~~can be converted~~ to electrical energy irrespective of the a direction of the heat flow.

3. (Previously Presented) The arrangement as claimed in claim 1, wherein the thermoelectric transducer is connected to a heat sink on the transducer face facing away from the process.

4. (Previously Presented) The arrangement as claimed in claim 3, wherein the thermoelectric transducer is fitted entirely within the housing and the heat sink is fitted at least partially within the housing.

5. (Previously Presented) The arrangement as claimed in claim 3, wherein the field device is equipped with an energy store and an energy management system, which is integrated in a controller or in a control, data acquisition and processing module.

6. (Currently Amended) A method for supplying electrical power to a field device, comprising: ~~with a housing for~~

monitoring of a technical process in a process installation~~[[,]]~~ in which there are pipelines which carry process media, ~~without the use of wires, which~~ with a field device ~~has~~ having a wire-free communication interface, ~~has~~ at least one field device face facing the process and at least one field device face facing away from the process, ~~and is~~ the field device having a housing equipped with a thermoelectric transducer outside the pipelines which carry process media to be monitored by the field device, the thermoelectric transducer having ~~which has~~ a transducer face facing the process and a transducer face facing away from the process~~[[,]]~~ ; and

~~wherein~~ converting heat flow in the field device between the field device face facing the process and the field device face facing away from the process and/or heat flow through the thermoelectric transducer between the transducer face facing the process and the transducer face facing away from the process ~~is converted to~~ electrical energy by the thermoelectric transducer for supplying power to the field device.

7. (Currently Amended) The method as claimed in claim 6, ~~wherein~~ comprising:
converting the heat flow in the field device between the field device face facing the process and the field device face facing away from the process, and/or the heat flow through the thermoelectric transducer between the transducer face facing the process and the transducer face facing away from the process ~~is converted to~~ electrical energy irrespective of ~~the~~ a direction of the heat flow.

8. (Currently Amended) The method as claimed in claim 7, ~~wherein a defined~~
comprising:

defining a path for the heat flow in the field device ~~is created~~ by a heat sink
which is fitted on the transducer face facing away from the process.

9. (Currently Amended) The method as claimed in claim 8, ~~wherein~~ comprising:

controlling energy consumption of the field device ~~is minimized~~ by an energy
management system, with the energy management system being integrated in a
controller or in a control, data acquisition and processing module, and being
connected via the wire-free communication interface with a central control and/or
service station.

10. (Currently Amended) The method as claimed in claim 9, ~~wherein~~ comprising:

minimizing the energy consumption of the field device ~~is minimized~~ as a
function of a state of an energy store which is arranged in the field device, and/or of
actual measurement variables and/or of their rate of change with time and/or of an
instantaneous installation state, which is known to the central control and/or service
station.

11. (Currently Amended) The arrangement as claimed in claim 2, ~~wherein~~
comprising:

connecting the thermoelectric transducer ~~is connected~~ to a heat sink on the transducer face facing away from the process.